ENVIRONMENTAL CHEMISTS

Date of Report: 12/03/03 Date Received: 11/06/03

Project: Metro Self Monitor, PO# M92123, F&BI 311040

Date Extracted: 12/01/03 Date Analyzed: 12/01/03

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID	<u>Chromium</u>	Copper	<u>Nickel</u>	Zinc
Laboratory ID		- 1960 - 1960 - 1960 - 1960 - 1960 - 1960 - 1960 - 1960 - 1960 - 1960 - 1960 - 1960 - 1960 - 1960 - 1960 - 196		
M92123	0.47	0.53	0.90	< 0.05
311040-01				
Method Blank	<0.05	< 0.05	< 0.10	< 0.05

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QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 311246-01 (Duplicate)

		Here with a settle of			Relative	
		Reporting	Sample	Duplica	te Percent	Acceptance
1	Analyte	Units	Result	Result	Difference	Criteria
	Chromium	mg/L (ppm)	0.21	0.21	0	0-20
Ŧ.	Copper	mg/L (ppm)	0.16	0.16	0	0-20
	Nickel	mg/L (ppm)	0.15	0.15	0	0-20
	Zinc	mg/L (ppm)	0.05	< 0.05	nm	0-20

Laboratory Code: 311246-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recov	ery Acceptance
Analyte	Units	Level	Result	MS	Criteria
Chromium	mg/L (ppm)	2	0.21	90	80-120
Copper	mg/L (ppm)	2	0.16	86	80-120
Nickel	mg/L (ppm)	4	0.15	85	80-120
Zinc	mg/L (ppm)	2	0.05	91	80-120

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recove	ery % Recov	ery Acceptan	ce RPD
Analyte	Units	Level	LCS	LCSI	O Criteria	(Limit 20)
Chromium	mg/L (ppm)	2	105	95	80-120	10
Copper	mg/L (ppm)	2	105	94	80-120	11
Nickel	mg/L (ppm)	4	106	97	80-120	9
Zinc	mg/L (ppm)	2	107	98	80-120	9

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

SAMPLE CHAIN OF CUSTODY

CM 11/06/03

Send Report To G. Thomas	SAMPLER (signature)		Page # of TURNAROUND TIME
Company Al Askon Copper works Address 628 S. Handard SV	PROJECT NAME/NO.	PO# m52127	☐ Standard (2 Weeks) ☐ RUSH Rush charges authorized by:
City, State, ZIP Seatts List Phone # 266-382-8778 Fax #	REMARKS		SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions

										ANA	LYS	ES R	EQU	EST	ED				
Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Ca, Cu, polze					١	lotes	
m92123	01	11/6	93 0	ho	1							7							
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Friedman & Bruya, Inc.	4	SIGNATU	IRF	<u> </u>	PRINT	NIA	ME			<u>L_</u>		CC)MP.	ANIV		_	DATE	TIME	

Friedman & Bruya, Inc. 3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

Relinquished by:

Received by:

PRINT NAME

ACN F\$BI

S/30 9:30

FORMS\COC\COC.DOC

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

December 3, 2003

DUPLICATE COPY

INVOICE # 03ACU1203-5

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M92123, F&BI 311040 - Results of testing requested by Gerry Thompson for material submitted on November 6, 2003.

FEDERAL TAX ID #(b) (6)

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

December 3, 2003

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on November 6, 2003 from the Metro Self Monitor, PO# M92123, F&BI 311040 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

ena Morrow

Charlene Morrow

Chemist

Enclosures ACU1203R.DOC